

STN Search Summary
09/942407

=> d his

FILE 'CAPLUS' ENTERED AT 14:40:50 ON 08 OCT 2003

L1 42 S METHYLMALONYL? (5A) (EPIMERASE OR RACEMASE)
L2 13 S L1 AND (PROPIONIBACTERI? OR SHERMAN?)
L3 3 S L1 AND POLYKETIDE?
L4 0 S L3 NOT L2

L2 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2003:694139 CAPLUS
TI Metabolic engineering of *Escherichia coli* for improved 6-deoxyerythronolide B production
AU Murli, Sumati; Kennedy, Jonathan; Dayem, Linda C.; Carney, John R.; Kealey, James T.
SO Journal of Industrial Microbiology & Biotechnology (2003), 30(8), 500-509

L2 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:237697 CAPLUS
TI Metabolic Engineering of a Methylmalonyl-CoA Mutase-Epimerase Pathway for Complex Polyketide Biosynthesis in *Escherichia coli*
AU Dayem, Linda C.; Carney, John R.; Santi, Daniel V.; Pfeifer, Blaine A.; Khosla, Chaitan; Kealey, James T.
SO Biochemistry (2002), 41(16), 5193-5201

L2 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:537298 CAPLUS
TI Crystal structure of methylmalonyl-coenzyme A epimerase from *P. shermanii*: A novel enzymatic function on an ancient metal binding scaffold
AU McCarthy, A. A.; Baker, H. M.; Shewry, S. C.; Patchett, M. L.; Baker, E. N..
SO Structure (Cambridge, MA, United States) (2001), 9(7), 637-646

L2 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:320128 CAPLUS
TI Recombinant *Escherichia coli* and *Saccharomyces cerevisiae* expressing enzymes required for production of precursors (such as methylmalonyl CoA) needed for synthesis of polyketides
IN Santi, Daniel; Peck, Larry; Dayem, Linda; Kealey, James
PA Kosan Biosciences, Inc., USA
SO PCT Int. Appl., 97 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001031035	A2	20010503	WO 2000-US29775	20001027
	WO 2001031035	A3	20011122		
	EP 1224300	A2	20020724	EP 2000-972384	20001027
	JP 2003512073	T2	20030402	JP 2001-533170	20001027
	US 2002142401	A1	20021003	US 2001-942407	20010829
PRAI	US 1999-161703P	P	19991027		
	US 1999-161414P	P	19991025		
	US 2000-206082P	P	20000518		
	US 2000-699136	A3	20001027		
	WO 2000-US29775	W	20001027		

L2 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2001:294341 CAPLUS
 TI Expression, crystallization and preliminary characterization of
 methylmalonyl coenzyme A epimerase from
 Propionibacterium shermanii
 AU McCarthy, Andrew A.; Baker, Heather M.; Shewry, Steven C.; Kagawa, Todd
 F.; Saafi, Edward; Patchett, Mark L.; Baker, Edward N.
 SO Acta Crystallographica, Section D: Biological Crystallography (2001),
 D57(5), 706-708

L2 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1994:476945 CAPLUS
 TI Synthesis, characterization, and enzymic conversion of nonhydrolyzable
 analogs of propionyl coenzyme A
 AU Zhao, Yimin; Michenfelder, Martina; Retey, Janos
 SO Canadian Journal of Chemistry (1994), 72(1), 164-9

L2 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1983:554351 CAPLUS
 TI Proton transfer in methylmalonyl-CoA epimerase from
 Propionibacterium shermanii. The reaction of
 (2R)-methylmalonyl-CoA in tritiated water
 AU Fuller, James Q.; Leadlay, Peter F.
 SO Biochemical Journal (1983), 213(3), 643-50

L2 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1983:554350 CAPLUS
 TI Proton transfer in methylmalonyl-CoA epimerase from
 Propionibacterium shermanii. Studies with specifically
 tritiated (2R)-methylmalonyl-CoA as substrate
 AU Leadlay, Peter F.; Fuller, James Q.
 SO Biochemical Journal (1983), 213(3), 635-42

L2 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1982:16441 CAPLUS
 TI Purification and characterization of methylmalonyl-CoA
 epimerase from Propionibacterium shermanii
 AU Leadlay, Peter F.
 SO Biochemical Journal (1981), 197(2), 413-19

L2 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1970:410818 CAPLUS
 TI Methylmalonyl-CoA racemase from
 Propionibacterium shermanii
 AU Allen, Sydney H. G.; Kellermeyer, Robert W.; Wood, Harland Goff
 SO Methods in Enzymology (1969), 13, 194-8

L2 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1964:433914 CAPLUS
 DN 61:33914
 OREF 61:5971f-h
 TI Methylmalonyl isomerase. IV. Purification and properties of the enzyme
 from propionibacteria
 AU Kellermeyer, R. W.; Allen, S. H. G.; Stjernholm, Rune; Wood, Harland G.
 SO Journal of Biological Chemistry (1964), 239(8), 2562-9

L2 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1963:67665 CAPLUS
 DN 58:67665
 OREF 58:11624b-d
 TI The isolation, purification, and properties of methylmalonyl
 racemase
 AU Allen, S. H. G.; Kellermeyer, R.; Stjernholm, Rune; Jacobson, Birgit;
 Wood, Harland G.
 SO Journal of Biological Chemistry (1963), 238, 1637-42

L2 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1962:424832 CAPLUS
 DN 57:24832
 OREF 57:5018g-i
 TI The mechanism of the rearrangement of methyl coenzyme A in succinyl
 coenzyme A. II. Studies on the mode of action of methylmalonyl-coenzyme A
 isomerase and methyl-malonyl-coenzyme A racemase
 AU Overath, Peter; Kellerman, Geoffry M.; Lynen, Feodor; Fritza, Heinz P.;
 Keller, Heimo J.
 SO Biochemische Zeitschrift (1962), 335, 500-18

=> d his

(FILE 'HOME' ENTERED AT 14:47:08 ON 08 OCT 2003)

FILE 'CAPLUS' ENTERED AT 14:47:12 ON 08 OCT 2003

L1 122 S METHYLMALONYL (P) (PROPIONIBACTERI? OR SHERMAN?)
L2 98 S METHYLMALONYL (S) (PROPIONIBACTERI? OR SHERMAN?)
L3 2 S L1 AND DAVIS?/AU
L4 14 S L1 AND (EPIMERASE OR RACEMASE)
L5 42 S METHYLMALONYL? (5A) (EPIMERASE OR RACEMASE)
L6 13 S L5 AND (PROPIONIBACTER? OR SHERMAN?)
L7 1 S L4 NOT L6
L8 23 S (METHYLMALONYL? AND PROPIONIBACTERIUM)/TI
L9 1 S L8 AND METABOLISM/TI

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1990:71058 CAPLUS
DN 112:71058
TI Cloning and structural characterization of the genes coding for
adenosylcobalamin-dependent methylmalonyl-CoA mutase from
Propionibacterium shermanii
AU Marsh, E. Neil; McKie, Norman; Davis, Nigel K.; Leadlay, Peter
F.
CS Dep. Biochem., Univ. Cambridge, Cambridge, CB2 1QW, UK
SO Biochemical Journal (1989), 260(2), 345-52
CODEN: BIJOAK; ISSN: 0306-3275
DT Journal
LA English

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1986:402776 CAPLUS
DN 105:2776
TI The subunit structure of methylmalonyl-CoA mutase from
Propionibacterium shermanii
AU Francalanci, Franco; Davis, Nigel K.; Fuller, James Q.; Murfitt,
David; Leadlay, Peter F.
CS Dep. Biochem., Univ. Cambridge, Cambridge, CB2 1QW, UK
SO Biochemical Journal (1986), 236(2), 489-94
CODEN: BIJOAK; ISSN: 0306-3275
DT Journal
LA English

WEST Search History

DATE: Wednesday, October 08, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
	<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR</i>		
L1	methylnalonyl\$ adj3 (epimerase or racemase)	5	L1

END OF SEARCH HISTORY